## Pre-Algebra - Unit 1: The Language of Algebra <br> Phoenixville Area School District

## Stage 1 Desired Results

| PA Core Standards: M07.B-E.1.1 Use <br> properties of operations to generate equivalent expressions. <br> M06.A-N.3.2 | Transfer |  |
| :---: | :---: | :---: |
|  | TRANSFER GOALS <br> Students will be able to independently use their learning to... <br> - Number Sense: Develop a sound foundation to demonstrate the value of numbers by describing their various representations, relationships, and patterns. <br> - Mathematical Vocabulary: Interpret mathematical vocabulary and apply proper terminology to engage in meaningful oral and written expression that communicates mathematical thinking, problem-solving methods, and rationale. |  |
| and absolute value of | Meaning |  |
| rational numbers. (6 $6^{\text {th }}$ ) <br> PSSA Assessment <br> Anchors: <br> M07.B-E. 1 Represent <br> expressions in equivalent forms. <br> M06.A-N. 3 Apply and <br> extend previous | UNDERSTANDINGS <br> Students will understand that... <br> - Variables represent the unknown so that mathematicians can generalize a pattern rather than being limited to looking at specific values. <br> - Algebraic rules and properties determine how expressions are simplified and how equations are solved. | ESSENTIAL QUESTIONS <br> Students will keep considering... <br> - What is the nature of the relationship? How do I represent it? <br> - What does this quantity/number/ expression/value mean? What are the ways to represent it? Is there a best way? |
| understandings of | Knowledge and Skills Acquisition |  |
| of rational numbers. $\left(6^{\text {th }}\right)$ | KNOWLEDGE <br> Students will know... <br> - Algebraic expressions from verbal descriptions. <br> - Linear expressions with rational coefficients. <br> - Coordinates of rational numbers on a number line as well as a coordinate plane. ( $6^{\text {th }}$ ) | SKILLS <br> Students will be skilled at... <br> - Applying properties of operations to add and subtract to simplify an expression. <br> - Applying properties of operations to factor and distribute to put an expression in simplest form. |




